

Serial No. 10/620,064

Docket No. 3374-US-NP

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Amendments to the Claims:

This listing of claims will replace all previous versions, and listings, of claims in the application:

Listing of Claims:1-43. (*canceled*)

44. (*Previously submitted*) A medium for culturing CHO cells comprising mannose, fructose, galactose, and N-acetylmannosamine, wherein the use of the medium can increase the sialic acid content of a protein produced by the CHO cells.

45. (*Previously submitted*) The medium of claim 44, wherein the medium is serum free.

46. (*Previously submitted*) The medium of claim 44, wherein the medium is for culturing CHO cells during a production phase.

47. (*Previously submitted*) The medium of claim 44, wherein the concentrations of galactose, mannose, and fructose are each from about 1 mM to about 10 mM and the concentration of N-acetylmannosamine is at least about 0.8 mM.

48. (*Previously submitted*) The medium of claim 44, wherein the concentrations of galactose, mannose, and fructose are each from about 1.5 mM to about 4.5 mM.

49. (*Currently amended*) A method for increasing the sialic acid content of a protein produced by CHO cells comprising culturing the CHO cells a in the medium comprising mannose, galactose, fructose, and N-acetylmannosamine, wherein culturing the CHO cells in the medium can increase the sialylation of a protein produced by the CHO cells of claim 44.

50. (*Previously submitted*) The method of claim 49, wherein the medium is serum free.

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51. (*Previously submitted*) The method of claim 49, wherein the CHO cells are cultured in the medium during a production phase.

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52. *(Currently amended)* The method of claim 49, wherein the concentrations of galactose, mannose, and fructose in the medium are each from about 1 mM to about 10 mM and the concentration of N-acetylmannosamine in the medium is at least about 0.8 mM.
53. *(Currently amended)* The method of claim 49, wherein the concentrations of galactose, mannose, and fructose in the medium are each from about 1.5 mM to about 4.5 mM.
54. *(Previously submitted)* The method of claim 49, wherein the protein is a secreted, recombinant protein.
55. *(Currently amended)* The method of claim 49, wherein the CHO cells are cultured at a temperature from about 29°C to about 36°C.
56. *(Previously submitted)* A medium for culturing CHO cells comprising galactose and N-acetylmannosamine, wherein the use of the medium can increase the sialic acid content of a protein produced by the CHO cells.
57. *(Previously submitted)* The medium of claim 56, wherein the medium is serum free.
58. *(Previously submitted)* The medium of claim 56, wherein the medium is for culturing CHO cells during a production phase.
59. *(Previously submitted)* The medium of claim 56, wherein the concentration of galactose, is from about 1 mM to about 10 mM and the concentration of N-acetylmannosamine is at least about 0.8 mM.
60. *(Previously submitted)* The medium of claim 56, wherein the concentration of galactose is from about 1.5 mM to about 4.5 mM.
61. *(Currently amended)* A method for increasing the sialic acid content of a protein produced by CHO cells comprising culturing the CHO cells ~~a in the medium comprising galactose and N-acetylmannosamine, wherein culturing the CHO cells in the medium can increase the sialylation of a protein produced by the CHO cells of claim 56.~~

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62. *(Previously submitted)* The method of claim 61, wherein the medium is serum free.
63. *(Previously submitted)* The method of claim 61, wherein the CHO cells are cultured in the medium during a production phase.
64. *(Currently amended)* The method of claim 61, wherein the concentration of galactose in the medium, is from about 1 mM to about 10 mM and the concentration of N-acetylmannosamine in the medium is at least about 0.8 mM.
65. *(Currently amended)* The method of claim 61, wherein the concentration of galactose in the medium, is from about 1.5 mM to about 4.5 mM.
66. *(Previously submitted)* The method of claim 61, wherein the protein is a secreted, recombinant protein.
67. *(Currently amended)* The method of claim 61, wherein the CHO cells are cultured at a temperature from about 29°C to about 36°C.
- 68-91. *(Cancelled)*
92. *(New)* A medium for culturing CHO cells comprising mannose, fructose, and galactose, wherein the use of the medium can increase the sialic acid content of a protein produced by the CHO cells.
93. *(New)* The medium of claim 92, wherein the medium is serum free.
94. *(New)* The medium of claim 92, wherein the medium is for culturing the CHO cells during a production phase.
95. *(New)* The medium of claim 92, wherein the concentrations of galactose, mannose, and fructose are each from about 1 mM to about 10 mM.
96. *(New)* The medium of claim 92, wherein the concentrations of galactose, mannose, and fructose are each from about 1.5 mM to about 4.5 mM.
97. *(New)* A method for increasing the sialic acid content of a protein produced by CHO cells comprising culturing the CHO cells a medium comprising mannose, fructose, and galactose, wherein culturing the CHO cells in the medium can increase the sialylation of a protein produced by the CHO cells.

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98. (New) The method of claim 97, wherein the medium is serum free.
99. (New) The method of claim 97, wherein the CHO cells are cultured in the medium during a production phase.
100. (New) The method of claim 97, wherein the concentrations of galactose, mannose, and fructose in the medium are each from about 1 mM to about 10 mM.
101. (New) The method of claim 100, wherein the concentrations of galactose, mannose, and fructose in the medium are each from about 1.5 mM to about 4.5 mM.
102. (New) The method of claim 97, wherein the protein is a secreted, recombinant protein.
103. (New) The method of claim 97, wherein the CHO cells are cultured at a temperature from about 29°C to about 36°C.
104. (New) A medium for culturing CHO cells comprising fructose and galactose, wherein the use of the medium can increase the sialic acid content of a protein produced by the CHO cells.
105. (New) The medium of claim 104, wherein the medium is serum free.
106. (New) The medium of claim 104, wherein the medium is for culturing the CHO cells during a production phase.
107. (New) The medium of claim 104, wherein the concentrations of galactose and fructose are each from about 1 mM to about 10mM.
108. (New) The medium of claim 107, wherein the concentrations of galactose and fructose are each from about 1.5 mM to about 4.5 mM.
109. (New) A method for increasing the sialic acid content of a protein produced by CHO cells comprising culturing the CHO cells a medium comprising fructose and galactose, wherein culturing the CHO cells in the medium can increase the sialylation of a protein produced by the CHO cells.
110. (New) The method of claim 109, wherein the medium is serum free.

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111. (New) The method of claim 109, wherein the CHO cells are cultured in the medium during a production phase.
112. (New) The method of claim 109, wherein the concentrations of galactose and fructose in the medium are each from about 1 mM to about 10 mM.
113. (New) The method of claim 112, wherein the concentrations of galactose and fructose in the medium are each from about 1.5 mM to about 4.5 mM.
114. (New) The method of claim 109, wherein the protein is a secreted, recombinant protein.
115. (New) The method of claim 109, wherein the CHO cells are cultured at a temperature from about 29°C to about 36°C.